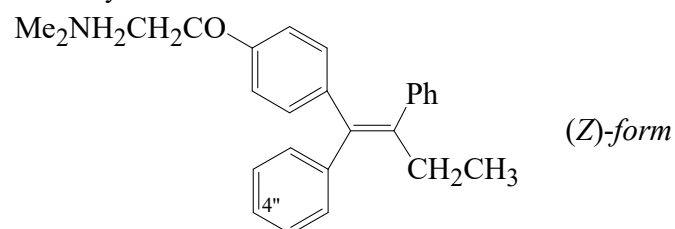




>>Entry Name: **Tamoxifen**, BAN, INN

Synonym(s): 2-[4-(1,2-Diphenyl-1-butenyl)phenoxy]-*N,N*-dimethylethanamine, 9CI. Kessar. Neophedan. Noltam. **Nolvadex**‡. Spectrila. Tamaxin. Tamofen. Tamoplex. Tamoxigenat. Valodex. Zemide. ICI 46474. NSC 180973. Many other names



Molecular Formula: C₂₆H₂₉NO

Molecular Weight: 371.521

Accurate Mass: 371.224914

Percentage Composition: C 84.06%; H 7.87%; N 3.77%; O 4.31%

Biological Use/Importance: Antiestrogen; used in the treatment of breast cancer

Development Status: Marketed drug. Launched 1977. Worldwide 87th best selling prescription drug (as citrate) (\$0.58 bn) (AstraZeneca) (2000, Pharma Business)

Calculated Log P Data: Log P 6.64 (calc)

Other Data: The active drug is prob. the 4-OH substd. deriv.

>>Variant: (*E*)-form

Synonym(s): ICI 47699

CAS Registry Number: 13002-65-8

Molecular Formula: C₂₆H₂₉NO

Molecular Weight: 371.521

Accurate Mass: 371.224914

Percentage Composition: C 84.06%; H 7.87%; N 3.77%; O 4.31%

Physical Description: Cryst. (MeOH)

Melting Point: Mp 72-74°

Aldrich: 28161-1

>>Derivative: 4''-Hydroxy

CAS Registry Number: 174592-47-3

Extra CAS Registry Numbers(s): 68047-35-8

Molecular Formula: C₂₆H₂₉NO₂

Molecular Weight: 387.521

Accurate Mass: 387.219829

Percentage Composition: C 80.59%; H 7.54%; N 3.61%; O 8.26%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 155-157°

>>Variant: (*Z*)-form

CAS Registry Number: 10540-29-1

Molecular Formula: C₂₆H₂₉NO

Molecular Weight: 371.521

Accurate Mass: 371.224914

Percentage Composition: C 84.06%; H 7.87%; N 3.77%; O 4.31%

Physical Description: Cryst. (petrol)

Melting Point: Mp 96-98°

Other Data: Pharmacol. active isomer

Sigma: T5648

>>Derivative: Citrate (1:1)

Synonym(s): **Tamoxifen citrate**, JAN, USAN. Duratamoxifen. Embion. Fentamox. Kessar. Noltam. Nolvadex. Oestrifen. Oncotam. Tamofen. Many other names

CAS Registry Number: 54965-24-1

Melting Point: Mp 140-142°

Sigma: T9262